•Skills Matrix

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EHP Issue 2006	Lesson Title	Classification	Communication			Comprehension		Computation	Critical Thinking & Response	Experimentation			Graphing	Graph Reading	Manipulation	Observation	Reading Maps & Legends	Research	Tables & Figures		Technological Design	Unit Conversion
			Note Taking	Oral	Written (Incl. Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
January	Lead and Mercury: Comparing Two Environmental Evils	X	X	X	X		X		X													
	Are EDCs Blurring the Issues of Gender?	X	X	X	X	X	X		X		X							X		X		
	HAPpening Vocab: Genetics	X			X		X		X													
February	Particles: Size Makes All the Difference	X		X	X		X		X					X						X		X
	Nuclear Energy: Is Perception Reality?	X		X	X	X	X		X	X	X							X	X	X		
	Human Body Systems: The Domino Effect	X			X		X		X						X	X		X				

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			Note Taking	Oral	Written (Incl. Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
March	Eyes: Windows to the World	X	X	X	X	X	X		X							X		X				
	The Case of the Contaminated Maize		X	X	X	X	X		X		X											
	Death by Particles	X	X		X	X	X		X		X		X	X					X	X		
April	In Katrina's Wake	X	X	X	X	X	X		X								X					
	Bisphenol A and Diabetes		X	X	X	X	X		X					X		X						
	X-Rays Get in Synch	X			X	X	X	X	X					X					X	X	X	X
May	Is Organic Food Worth the Extra Cost?		X	X	X	X	X	X	X											X		X
	What's in a Picture?	X	X	X	X		X		X							X						
	Toxic Tic-Tac-Toe	X	X	X	X	X	X		X													
	Skills Addressed by All Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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EHP Issue 2006	Lesson Title	Classification	Communication			Comprehension		Computation	Critical Thinking & Response	Experimentation			Graphing	Graph Reading	Manipulation	Observation	Reading Maps & Legends	Research	Tables & Figures		Technological Design	Unit Conversion
			Note Taking	Oral	Written (Incl. Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
June	Bans, Bans Good for the Heart	X		X	X	X	X		X													
	A Not-so-Sweet Sweetner?	X	X	X	X	X	X		X	X	X	X						X				
July	The Scientific Method: Adding Up to a Lot of Good		X	X	X	X	X		X			X										
	Ports in a Storm: A Surge of Solutions	X	X	X	X	X	X		X						X	X			X	X	X	
	The Name Game	X		X	X	X	X		X													
August	Making Sports Green		X	X	X	X	X	X	X		X					X	X			X		X
	Cleaner Air on the Fly		X	X	X	X	X		X	X	X	X			X	X					X	
	Getting the Lead Out	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X

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			Note Taking	Oral	Written (Incl. Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
September	Cross Out Secondhand Smoke		X	X	X	X	X		X													
	Mother's Milk —Unleaded, Please		X	X	X	X	X		X													
	Soy: Filling in the Gaps		X	X	X	X	X		X									X				
October	Tracing the Origins of Autism	X	X	X	X	X	X	X	X			X								X		X
	Mutations, Proteins, and Autism: Modeling a Pathway	X	X	X	X	X	X		X						X	X						
	Beauty or the Beast?	X	X	X	X	X	X		X							X						
November	Making a Better Nail		X	X	X	X	X	X	X	X					X	X					X	
	Arsenic and Lead Scavenger Hunt	X	X	X	X	X	X		X												X	
	Handwashing 101		X	X	X	X	X	X	X	X	X	X				X						
	Skills Addressed by All Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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EHP Issue 2006	Lesson Title	Classification	Communication			Comprehension		Computation	Critical Thinking & Response	Experimentation			Graphing	Graph Reading	Manipulation	Observation	Reading Maps & Legends	Research	Tables & Figures		Technological Design	Unit Conversion
			Note Taking	Oral	Written (Incl. Summarization)	Listening	Reading			Conduct	Data Analysis	Design							Creating	Reading		
December	Pyrethroid Panic?		X	X	X	X	X		X				X									
	What's the Plan?		X	X	X	X	X		X									X				
	Build a Personal Sensor	X	X	X	X	X	X	X	X									X			X	
	Skills Addressed by All EHP Lessons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

National Science Education Content Standards Matrix (Jan.–Mar. 2006)		Standards Addressed By All Lessons	Lead and Mercury: Comparing Two Environmental Evils	Are EDCs Blurring the Issues of Gender?	HAPpening Vocab: Genetics	Particles: Size Makes All the Difference	Nuclear Energy: Is Perception Reality?	Human Body Systems: The Domino Effect	Eyes: Windows to the World	The Case of the Contaminated Maize	Death by Particles
Physical Science	Structure of atoms	X	X								
	Structure and properties of matter	X	X			X					
	Chemical reactions	X									
	Motions and forces	X									
	Conservation of energy and increase in disorder	X									
	Interactions of energy and matter	X									
Science and Technology	Abilities of technological design	X					X				
	Understanding about science and technology	X			X		X				
Science in Personal and Social Perspectives	Personal and community health	X	X	X	X	X	X	X	X	X	X
	Population growth	X									
	Natural resources	X	X				X		X	X	X
	Environmental quality	X	X	X		X	X		X	X	X
	Natural and human-induced hazards	X	X	X		X	X	X	X	X	X
	Science and technology in local, national, and global challenges	X	X	X	X		X				
History and Nature of Science	Science as a human endeavor	X		X	X					X	
	Nature of scientific knowledge	X		X	X						
	Historical perspectives	X		X							

National Science Education Content Standards Matrix (Apr.–Jul. 2006)		Standards Addressed By All Lessons	In Katrina's Wake	Bisphenol A and Diabetes	X-Rays Get in Synch	Is Organic Food Worth the Extra Cost?	What's in a Picture?	Toxic Tic-Tac-Toe	Bans, Bans Good for the Heart	A Not-So-Sweet Sweetner?	The Scientific Method: Adding Up to a Lot of Good	Ports in a Storm: A Surge of Solutions	The Name Game
Unifying Concepts and Processes	Systems, order, and organization	X	X	X	X	X		X		X		X	X
	Evidence, models, and explanation	X	X	X	X	X	X	X		X	X	X	X
	Change, constancy, and measurement	X	X	X	X	X	X	X		X	X	X	
	Evolution and equilibrium	X		X						X		X	
	Form and function	X		X		X		X		X			
Science as Inquiry	Abilities necessary to do scientific inquiry	X	X	X		X				X	X	X	
	Understanding about scientific inquiry	X		X	X	X					X		
Life Science	The cell	X		X		X		X			X		
	Molecular basis of heredity	X			X								
	Biological evolution	X											
	Interdependence of organisms	X				X		X				X	
	Matter, energy, and organization in living systems	X			X							X	
	Behavior of organisms	X				X						X	
Earth and Space Science	Energy in the earth system	X											
	Geochemical cycles	X											
	Origin and evolution of the earth system	X											
	Origin and evolution of the universe	X											

National Science Education Content Standards Matrix

(Apr.–Jul. 2006)

		Standards Addressed By All Lessons	In Katrina's Wake	Bisphenol A and Diabetes	X-Rays Get in Synch	Is Organic Food Worth the Extra Cost?	What's in a Picture?	Toxic Tic-Tac-Toe	Bans, Bans Good for the Heart	A Not-So-Sweet Sweetner?	The Scientific Method: Adding Up to a Lot of Good	Ports in a Storm: A Surge of Solutions	The Name Game
Physical Science	Structure of atoms	X			X								
	Structure and properties of matter	X			X								X
	Chemical reactions	X											
	Motions and forces	X											
	Conservation of energy and increase in disorder	X											
	Interactions of energy and matter	X			X								X
Science and Technology	Abilities of technological design	X			X							X	
	Understanding about science and technology	X			X							X	
Science in Personal and Social Perspectives	Personal and community health	X	X	X		X	X	X	X	X	X	X	X
	Population growth	X										X	
	Natural resources	X				X		X				X	
	Environmental quality	X	X			X	X	X	X	X		X	X
	Natural and human-induced hazards	X	X	X		X			X	X	X	X	X
	Science and technology in local, national, and global challenges	X		X	X	X			X		X	X	X
History and Nature of Science	Science as a human endeavor	X		X					X	X	X		
	Nature of scientific knowledge	X		X		X		X	X	X	X		
	Historical perspectives	X							X				

National Science Education Content Standards Matrix (Aug.–Sept. 2006)		Standards Addressed By All Lessons	Making Sports Green	Cleaner Air on the Fly	Getting the Lead Out	Cross Out Secondhand Smoke	Mother's Milk—Unleade, Please	Soy: Filling in the Gaps
Unifying Concepts and Processes	Systems, order, and organization	X	X	X	X		X	X
	Evidence, models, and explanation	X	X	X	X		X	X
	Change, constancy, and measurement	X	X	X	X		X	X
	Evolution and equilibrium	X	X					
	Form and function	X		X				X
Science as Inquiry	Abilities necessary to do scientific inquiry	X	X	X	X		X	X
	Understanding about scientific inquiry	X	X	X	X		X	X
Life Science	The cell	X						
	Molecular basis of heredity	X						
	Biological evolution	X						
	Interdependence of organisms	X	X					
	Matter, energy, and organization in living systems	X						
	Behavior of organisms	X						
Earth and Space Science	Energy in the earth system	X						
	Geochemical cycles	X						
	Origin and evolution of the earth system	X						
	Origin and evolution of the universe	X						

National Science Education Content Standards Matrix (Aug.–Sept. 2006)		Standards Addressed By All Lessons	Making Sports Green	Cleaner Air on the Fly	Getting the Lead Out	Cross Out Secondhand Smoke	Mother's Milk—Unleade, Please	Soy: Filling in the Gaps
Physical Science	Structure of atoms	X		X				
	Structure and properties of matter	X	X	X				
	Chemical reactions	X		X				
	Motions and forces	X						
	Conservation of energy and increase in disorder	X						
	Interactions of energy and matter	X						
Science and Technology	Abilities of technological design	X		X	X			
	Understanding about science and technology	X		X	X			
Science in Personal and Social Perspectives	Personal and community health	X	X	X	X	X	X	X
	Population growth	X						
	Natural resources	X	X	X	X		X	
	Environmental quality	X	X	X	X	X	X	
	Natural and human-induced hazards	X	X	X	X	X	X	
	Science and technology in local, national, and global challenges	X		X	X	X	X	
History and Nature of Science	Science as a human endeavor	X					X	X
	Nature of scientific knowledge	X		X	X		X	X
	Historical perspectives	X						

National Science Education Content Standards Matrix (October-December 2006)		Standards Addressed By All Lessons	ITracing the Origins of Autism: A Spectrum of New Studiese	Mutations, Proteins, and Autism: Modeling a Pathway	Beauty or the Beast?	Making a Better Nail	Arsenic and Lead Scavenger Hunt	Handwashing 101	Pyrethroid Panic	What's the Plan?	Build a Personal Sensor
Unifying Concepts and Processes	Systems, order, and organization	X	X	X	X	X	X			X	X
	Evidence, models, and explanation	X	X	X	X	X	X		X	X	X
	Change, constancy, and measurement	X	X	X		X	X		X		X
	Evolution and equilibrium	X	X	X			X				X
	Form and function	X	X	X	X	X	X				X
Science as Inquiry	Abilities necessary to do scientific inquiry	X	X	X		X	X	X	X	X	X
	Understanding about scientific inquiry	X	X	X	X	X	X	X	X	X	X
Life Science	The cell	X		X							
	Molecular basis of heredity	X	X								
	Biological evolution	X									
	Interdependence of organisms	X						X			X
	Matter, energy, and organization in living systems	X						X			X
	Behavior of organisms	X									X
Earth and Space Science	Energy in the earth system	X						X			
	Geochemical cycles	X									
	Origin and evolution of the earth system	X									
	Origin and evolution of the universe										

National Science Education Content Standards Matrix

(October-December 2006)

		Standards Addressed By All Lessons	ITracing the Origins of Autism: A Spectrum of New Studiese	Mutations, Proteins, and Autism: Modeling a Pathway	Beauty or the Beast?	Making a Better Nail	Arsenic and Lead Scavenger Hunt	Handwashing 101	Pyrethroid Panic	What's the Plan?	Build a Personal Sensor
Physical Science	Structure of atoms	X				X	X				
	Structure and properties of matter	X				X	X				
	Chemical reactions	X			X	X	X				
	Motions and forces	X									
	Conservation of energy and increase in disorder	X									
	Interactions of energy and matter	X				X					
Science and Technology	Abilities of technological design	X				X	X				X
	Understanding about science and technology	X				X	X				X
Science in Personal and Social Perspectives	Personal and community health	X	X	X	X	X	X	X			X
	Population growth	X					X				
	Natural resources	X				X				X	
	Environmental quality	X	X			X	X		X		X
	Natural and human-induced hazards	X	X		X	X	X	X	X	X	X
	Science and technology in local, national, and global challenges	X	X		X	X	X		X	X	X
History and Nature of Science	Science as a human endeavor	X	X					X	X	X	X
	Nature of scientific knowledge	X	X			X	X		X	X	X
	Historical perspectives	X	X				X				